

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 2 (GOVERNOR RITCHIE HIGHWAY) AND AMERICANA CIRCLE/MARLEY STATION MALL ENTRANCE IN ANNE ARUNDEL COUNTY, MARYLAND. MODIFICATIONS INCLUDE THE INSTALLATION OF 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEADS AND AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTONS FOR THE NORTH LEG OF MD 2 AND THE EAST LEG OF AMERICANA CIRCLE. MD 2 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 2 APPROACHES OPERATING CONCURRENTLY AND THE AMERICANA CIRCLE APPROACHES OPERATING SPLIT PHASED. PROTECTED LEFT-TURN PHASING IS PROVIDED FOR NORTHBOUND AND SOUTHBOUND MD 2.

NEW AUDIBLE PUSHBUTTON ACTUATED PEDESTRIAN PHASES WILL BE PROVIDED ACROSS THE NORTH LEG OF MD 2 AND THE EAST LEG OF AMERICANA CIRCLE.

APS MESSAGE FOR CROSSING MD 2 (GOVERNOR RITCHIE HIGHWAY) FROM NORTHEAST CURBSIDE:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT AMERICANA. SECOND PUSHBUTTON IN MEDIAN. WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING MD 2 (GOVERNOR RITCHIE HIGHWAY) FROM NORTHWEST CURBSIDE:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT AMERICANA. SECOND PUSHBUTTON IN MEDIAN. WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING MD 2 (GOVERNOR RITCHIE HIGHWAY) FROM MEDIAN:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS GOVERNOR RITCHIE AT AMERICANA. WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

APS MESSAGE FOR CROSSING AMERICANA CIRCLE:

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE "WAIT TO CROSS AMERICANA AT GOVERNOR RITCHIE. WAIT".
- B. WHEN WALK PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

CONTROLLER REQUIREMENTS

THE EXISTING NEMA SIZE '6' BASE MOUNTED CABINET AND EIGHT-PHASE CONTROLLER AND ALL ASSOCIATED EQUIPMENT WILL CONTINUE TO BE USED. A 2-WIRE CENTRAL CONTROL UNIT WILL BE ADDED TO THE CABINET.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY SHA:

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
9570	11	SF	[UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN - 6 EACH R10-3(1) (9"x15") - 1 EACH R4-7(R) (24"x30")

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MS. KIMBERLY TRAN
ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 841-1019

MR. JOHN MAYS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 841-1013

MR. ED RODENHIZER
SUPERVISOR - SIGNAL SHOP
PHONE: (410) 787-7650

MR. MIKE HUBER
ASSISTANT DISTRICT ENGINEER - UTILITY
PHONE: (410) 841-1039

MR. RICHARD L. DAFF
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	UNIT	DESCRIPTION
2002	4	CY	TEST PIT EXCAVATION
5005	500	LF	12 INCH WHITE LEAD FREE REFLECTIVE THERMOPLASTIC PAVEMENT MARKINGS
8001	6	EA	FURNISH AND INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
8002	4	EA	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE - ANY SIZE
8003	4	EA	FURNISH AND INSTALL 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8004	1	EA	RELOCATE SIGNAL HEAD - ANY TYPE
8005	1	EA	REMOVE AND DISPOSE PER ASSIGNMENT
8008	125	LF	FURNISH AND INSTALL UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8010	14	LF	WOOD SIGN SUPPORTS 4 INCH X 4 INCH
8012	125	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8015	11	SF	INSTALL GROUND MOUNTED SIGN
8020	800	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8021	600	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

EQUIPMENT LIST "C"

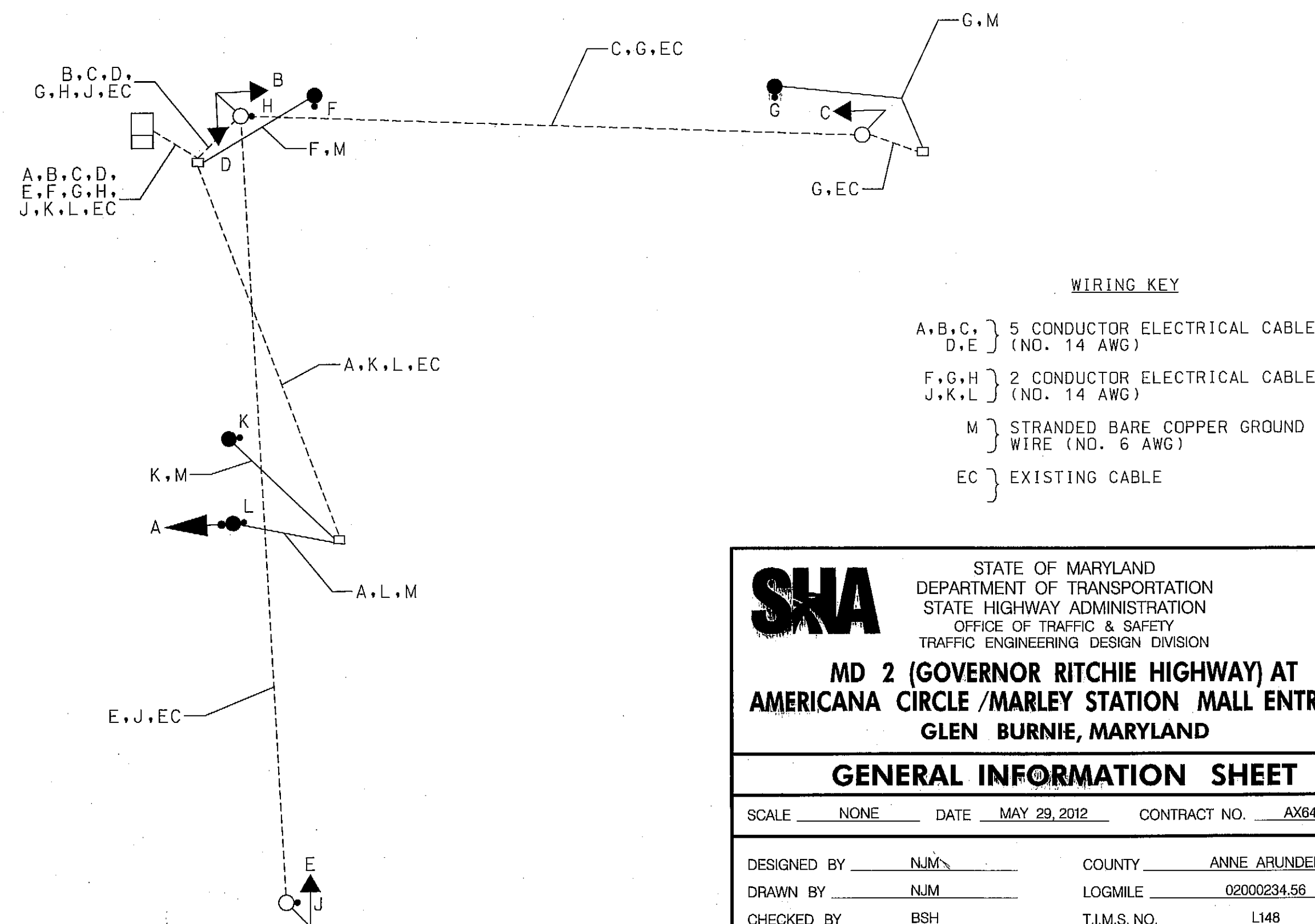
C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA:

NONE.

PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	17	19
PHASE 1 + 5	←G	←G	R	R	←G	←G	R	R	R	R	←G	←G	R	R	DW	DW	DW
1 + 5 CHANGE	1 + 5 MAY CHANGE TO PHASE 1 + 6, PHASE 2 + 5, OR PHASE 2 + 6																
PHASE 1 + 6	←G	←G	G	G	←R	←R	R	R	R	R	←R	←R	R	R	DW	DW	DW
1 + 6 CHANGE	←Y	←Y	G	G	←R	←R	R	R	R	R	←R	←R	R	R	DW	DW	DW
PHASE 2 + 5	←R	←R	R	R	←G	←G	G	G	R	R	←G	←G	R	R	DW	DW	DW
2 + 5 CHANGE	←R	←R	R	R	←Y	←Y	G	G	R	R	←Y	←Y	R	R	DW	DW	DW
PHASE 2 + 6	←R	←R	G	G	←R	←R	G	G	R	R	←R	←R	R	R	W	W	DW
PED CLEARANCE	←R	←R	G	G	←R	←R	G	G	R	R	←R	←R	R	R	FL/DW	FL/DW	DW
2 + 6 CHANGE	←R	←R	Y	Y	←R	←R	Y	Y	R	R	←R	←R	R	R	DW	DW	DW
PHASE 3	←R	←R	R	R	←R	←R	R	R	R	R	←R	←R	G	G	DW	DW	DW
3 CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	←R	←R	Y	Y	DW	DW	DW
PHASE 3 ALT	←R	←R	R	R	←R	←R	R	R	R	R	←R	←R	G	G	DW	DW	W
PED CLEARANCE	←R	←R	R	R	←R	←R	R	R	R	R	←R	←R	G	G	DW	DW	FL/DW
3 ALT CHANGE	←R	←R	R	R	←R	←R	R	R	R	R	←R	←R	Y	Y	DW	DW	DW
PHASE 4	←R	←R	R	R	←R	←R	R	R	←G	←G	←G	←G	R	R	DW	DW	DW
4 CHANGE	←R	←R	R	R	←R	←R	R	R	Y	Y	←Y	←Y	R	R	DW	DW	DW
FLASHING OPERATION	FL/←R	FL/←R	FL/Y	FL/Y	FL/←R	FL/←R	FL/Y	FL/Y	FL/R	FL/R	FL/←R	FL/←R	FL/R	FL/R	DARK	DARK	DARK

WIRING DIAGRAM



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 2 (GOVERNOR RITCHIE HIGHWAY) AT
AMERICANA CIRCLE /MARLEY STATION MALL ENTRANCE
GLEN BURNIE, MARYLAND**

GENERAL INFORMATION SHEET

SCALE	NONE	DATE	MAY 29, 2012	CONTRACT NO.	AX6445378
DESIGNED BY	NJM	COUNTY	ANNE ARUNDEL		
DRAWN BY	NJM	LOGMILE	02000234.56		
CHECKED BY	BSH	T.I.M.S. NO.	L148		
F.A.P. NO.	NA	T.O.D. NO.			
T.S. NO.	8747-GI	SG-02 OF SG-02		SHEET NO.	6 OF 6

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